

WHAT IS CLAIMED IS:

1. A printer apparatus, which is specified by the host to print in logical-page units, and comprises:

a mechanical controller for receiving a printing command, controlling a printing engine that prints on a printing medium, and detecting when there is no said printing medium in said printing engine; and

a printer controller for receiving a printing instruction from said host to print in logical-page units and creating printing data;

wherein said printer controller calculates the total physical length of said logical-pages after creating said printing data, then references a physical length of one page of said printing medium, and depending on the results, sends said printing command and said printing data to said mechanical controller, and also according to said reference results, controls the detection operation of said mechanical controller for detecting when there is no said printing medium.

2. The printer apparatus of claim 1, wherein

said printer controller creates bitmap data for each logical page as said printing data according to the printing instruction from said host for printing in logical-page units until the total physical length of plurality of said logical pages reaches said physical length, and then sends said print command and said bitmap data in logical-page units to said

mechanical controller in said logical-page units.

3. The printer apparatus of claim 1, wherein  
said printer controller receives the logical-page  
5 lengths from said host, and calculates the total physical  
length of said logical-pages.

4. The printer apparatus of claim 1, wherein  
said printer controller calculates the physical length  
10 of said total logical pages, according to the logical-page  
lengths and number of logical pages received from said host.

5. The printer apparatus of claim 1, wherein  
said printing engine comprises an engine for printing  
15 on a continuous printing medium, having a set fold length,  
as said printing medium.

6. The printer apparatus of claim 1, wherein  
said printer controller checks said physical length in  
20 said logical-page units.

7. A printer control method for printing in  
logical-page units according to a command of a host, and  
comprises the steps of:

25 receiving a printing instruction from said host to print  
in logical-page units:

creating printing data to be printed on a print medium

by a print engine according to said printing instruction;  
calculating the total physical length of said  
logical-pages;

referencing a physical length of one page of said print  
5 medium;

sending a printing command and said printing data to  
mechanical controller for controlling said print engine  
according to said reference results and controlling the  
detection operation of said mechanical controller for  
10 detecting when there is no said printing medium.

8. The printer control method of claim 7, wherein  
said creating step comprises a step of creating bitmap  
data for each logical page as said printing data according  
15 to the printing instruction from said host for printing in  
logical-page units until the total physical length of  
plurality of said logical pages reaches said physical length,  
and said sending step comprises a step of sending said  
print command and said bitmap data in logical-page units  
20 to said mechanical controller in said logical-page units.

9. The printer control method of claim 7, wherein  
said calculating step comprises a step of calculating  
the total physical length of said logical-pages according  
25 to logical-page lengths received from said host.

10. The printer control method of claim 7, wherein

said calculating step comprises a step of calculating the physical length of said total logical pages, according to the logical-page lengths and number of logical pages received from said host.

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11. The printer control method of claim 7, wherein said printing engine comprises an engine for printing on a continuous printing medium, having a set fold length, as said printing medium.

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12. The printer control method of claim 7, wherein said referencing step comprises a step of checking said physical length in said logical-page units.

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